22DC 670/00

Cassette auto radio 22DC 570/00

Service Service Service

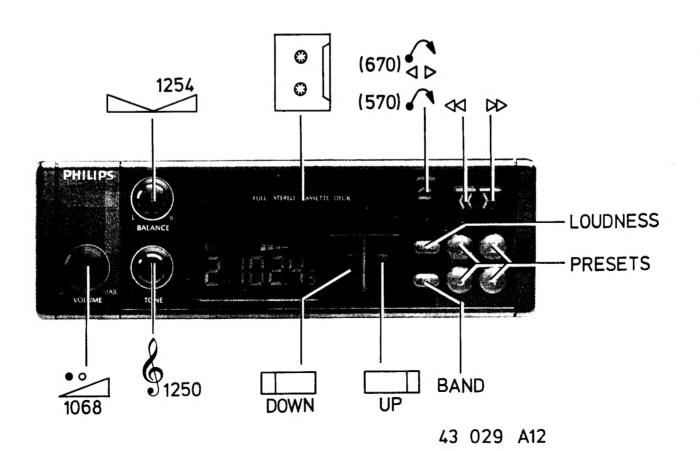
For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
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+ R570 R670

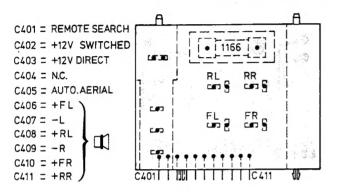
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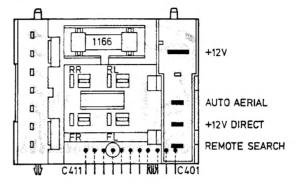
Service Manual

12 V ⊝-|

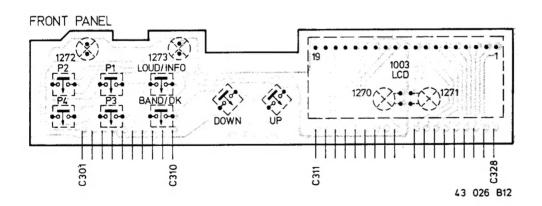


1053 CONNECTING BLOCK P.B. ASSY





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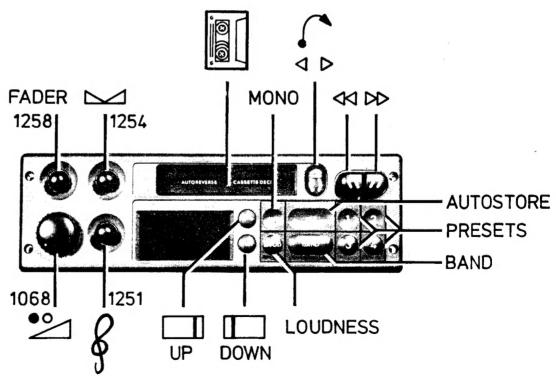
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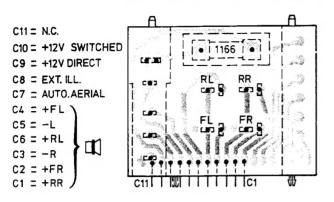
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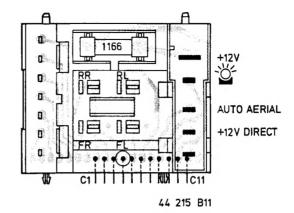
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1053 CONNECTING BLOCK P.B. ASSY

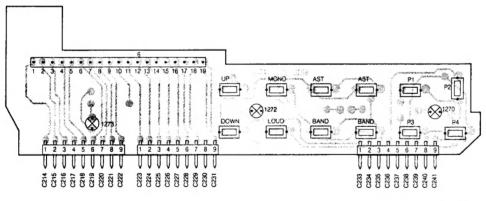




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Email:- enquiries@mauritron.co.uk

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				T		
- MISCELL	ANEOUS -			⊣⊢		
1055 1056 1057 1059 1060	IAC-Thifi SDK-Thifi STEREO DEC Cer.Filter 10.7 Cer.Filter 10.7	7 MHz 7 MHz	4822 214 51676 4822 214 51674 4822 214 51677 4822 242 71889 4822 242 71889	2166 2168 2172 2178 2180	100nF 20% 50V 100nF 20% 50V 100nF 20% 50V 2200μF 10V 2200μF 10V	4822 122 33104 4822 122 33104 4822 122 33104 4822 124 41452 4822 124 41452
1061 1062 1064 1065 1068	Crystal 4 MH Crystal 4 MH Cer.Filter 10.7 Cer.Filter 10.7 Potm.Volume	z 7 MHz 7 MHz	4822 242 71881 4822 242 71882 4822 242 71883 4822 242 71883 4822 102 40082	2186 2187 2192 2193 2196	100nF 20% 50V 100nF 20% 50V 33 pF 50V 33 pF 50V 2200µF 16V	4822 122 33104 4822 122 33104 4822 122 33215 4822 122 33215 4822 124 22412
1166 1250/1251 1254 1270÷1274	Fuse 2.5A(T) Potm.Tone 2) Potm.Balance Lamp 14V-40	100kΩ	4822 253 30026 4822 102 30462 4822 100 20663 4822 134 40855	2201 2204 2206 2208	100pF 20% 50V 2.2µF 40V 4.7nF 50V 4.7nF 50V	4822 122 33104 4822 124 20706 4822 122 33217 4822 122 33217
- I -						
2050 2051 2055 2056 2057	100nF 20% 47 nF 100nF 20% 10 nF 47 nF	50V 50V	4822 122 33104 4822 122 33211 4822 122 33104 4822 122 31728 4822 122 33211	3050 3051 3052 3053 3054	1k 330Ω 10E 10k Trimpotmeter 2k7	4822 111 91516 4822 111 91501 4822 111 91519 4822 100 20166 4822 111 91525
2061 2062 2063 2064 2068	2.2µF 150pF 270pF 220nF 20% 220nF 20%	40V 50V 50V	4822 124 20706 4822 122 33181 4822 122 33216 4822 122 32916 4822 122 32916	3055 3056 3057 3060 3061	10k Trimpotmeter 4k7 750E 10E 3k3	4822 100 20166 4822 111 91532 4822 111 91505 4822 111 91519 4822 111 91526
2070 2074 2076 2083 2088	390pF 20% 220nF 20% 220nF 20% 27 pF 10 pF	50V 50V 50V	4822 122 33172 4822 122 32916 4822 122 32916 4822 122 33214 4822 122 33212	3064 3065 3067 3068 3069	39k 2k2 620k 10E 3k9	4822 111 91528 4822 111 91522 4822 111 91503 4822 111 91519 4822 111 91527
2089 2090 2091 2092 2097	33 pF 20% 270pF 20% 270pF 20% 10 nF 20% 220nF 20%	50V 50V 50V 50V 50V	4822 122 33215 4822 122 33216 4822 122 33216 4822 122 33177 4822 122 32916	3070 3072 3073 3074 3075	8k2 22k 15k 1k 10k	4822 111 91507 4822 111 91523 4822 111 91498 4822 111 91516 4822 111 91517
2099 2106 2109 2110 2114	150pF 100nF 20% 22 pF 100nF 20% 4.7nF	50V 50V 50V 50V 50V	4822 122 33222 4822 122 33104 4822 122 33213 4822 122 33104 4822 122 33217	3076 3077 3079 3080 3082	2k7 330E 39k 39k 91E	4822 111 91525 4822 111 91501 4822 111 91528 4822 111 91528 4822 111 91508
2115 2118 2120 2121 2122	3.3nF 2200µF 10 pF 10 pF 820pF	50V 6.3V 50V 50V 50V	4822 122 33219 4822 124 41453 4822 122 33212 4822 122 33212 4822 122 33218	3083 3084 3086 3087 3090	2k2 39k 560E 470E 4k7	4822 111 91522 4822 111 91528 4822 111 91533 4822 111 91531 4822 111 91532
2123 2125 2126 2132 2133	820pF 820pF 820pF 2.7nF 2.7nF	50V 50V 50V 50V 50V	4822 122/33218 4822 122 33218 4822 122 33218 4822 122 33176 4822 122 33176	3091 3095 3096 3099 3100	220k 1k 1k 22k 220k	4822 111 91524 4822 111 91516 4822 111 91516 4822 111 91523 4822 111 91524
2134 2135 2136 2140 2141	220nF 20% 220nF 20% 100nF 20% 220µF 5.6nF	50V 50V 50V 10V 50V	4822 122 32916 4822 122 32916 4822 122 33104 4822 124 22409 4822 122 33221	3104 3105 3106 3107 3108	18k 18k 1k 39k 10k	4822 111 91521 4822 111 91521 4822 111 91516 4822 111 91528 4822 111 91517
2142 2150 2151 2156 2157	5.6nF 220nF 20% 220nF 20% 1.8nF 1.8nF	50V 50V 50V 50V 50V	4822 122 33221 4822 122 32916 4822 122 32916 4822 122 33144 4822 122 33144	3110 3111 3112 3113 3116	470E 470E 390k 390k 1M	4822 111 91531 4822 111 91531 4822 111 91529 4822 111 91529 4822 111 91509
2158 2162 2164	100nF 820pF 820pF	50V 50V 50V	4822 122 33209 4822 122 33218 4822 122 33218			4

©	DE 1 - 50	V ND0 04000	©	China O f	105 W C1006	©.7.	Chine O	125 W S1206 1
~ (inips 50	V NP0 S1206		Unips U,	125 W S1206	 	Jnips U,	
1 pF	5%	4822 122 32479	4,7 E	5%	5322 111 90376	6,8 k	2%	4822 111 90544
1,2 pF	5%	4822 122 33013	5,1 E	5%	4822 111 90393	7,5 k	2%	4822 111 90276
1,5 pF	5%	4822 122 31792	5,6 E	5%	4822 111 90394	8,2 k	2%	5322 111 90118
1,8 pF	5%	4822 122 32087	6,2 E	5%	4822 111 90395	9,1 k 10 k	2% 2%	4822 111 90373 4822 111 90249
2,2 pF	5%	4822 122 32425	6,8 E 7,5 E	5% 5%	4822 111 90254 4822 111 90396	11 k	2%	4822 111 90337
3,3 pF 3,9 pF	5% 5%	4822 122 32079 4822 122 32081	8,2 E	5% 5%	4822 111 90397	12 k	2%	4822 111 90253
4,7 pF	5%	4822 122 32082	9,1 E	5%	4822 111 90398	13 k	2%	4822 111 90509
5,6 pF	5%	4822 122 32506	10 E	2%	5322 111 90095	15 k	2%	4822 111 90196
6,8 pF	5%	4822 122 32507	11 E	2%	4822 111 90338	16 k	2%	4822 111 90346
8,2 pF	5%	4822 122 32083	12 E	2%	4822 111 90341	18 k	2%	4822 111 90238
10 pF	5%	4822 122 31971	13 E	2%	4822 111 90343	20 k	2%	4822 111 90349
12 pF	5%	4822 122 32139	15 E	2%	4822 111 90344	22 k	2%	4822 111 90251
15 pF	5%	4822 122 32504	16 E	2%	4822 111 90347	24 k	2%	4822 111 90512
18 pF	5%	4822 122 31769	18 E 20 E	2% 2%	5322 111 90139 4822 111 90352	27 k 30 k	2% 2%	4822 111 90542 4822 111 90216
22 pF	10% 5%	4822 122 31837 4822 122 31966	20 E	2% 2%	4822 111 90382	33 k	2%	5322 111 90267
27 pF 33 pF	5%	4822 122 31756	24 E	2%	4822 111 90355	36 k	2%	4822 111 90514
39 pF	5%	4822 122 31972	27 E	2%	5322 111 90105	39 k	2%	5322 111 90108
47 pF	5%	4822 122 31772	30 E	2%	4822 111 90356	43 k	2%	4822 111 90363
56 pF	5%	4822 122 31774	33 E	2%	4822 111 90357	47 k	2%	4822 111 90543
68 pF	5%	4822 122 31961	36 E	2%	4822 111 90359	51 k	2%	5322 111 90274
82 pF	10%	4822 122 31839	39 E	2%	4822 111 90361	56 k	2%	4822 111 90573
100 pF	5%	4822 122 31765	43 E	2%	5322 116 90125	62 k	2%	5322 111 90275
120 pF	5%	4822 122 31766	47 E	2%	4822 111 90217	68 k	2%	4822 111 90202
150 pF	5%	4822 122 31767	51 E	2%	4822 111 90365	75 k	2%	4822 111 90574
180 pF	2%	4822 122 31794	56 E	2%	4822 111 90239	82 k	2%	4822 111 90575
220 pF	5%	4822 122 31965	62 E	2%	4822 111 90367	91 k 100 k	2%	5322 111 90277 4822 111 90214
270 pF	5% 10%	4822 122 32142 4822 122 31642	68 E 75 E	2% 2%	4822 111 90203 4822 111 90371	110 k	2% 2%	5322 111 90269
330 pF 390 pF	5%	4822 122 31771	82 E	2%	4822 111 90124	120 k	2%	4822 111 90568
170 pF	5%	4822 122 31727	91 E	2%	4822 111 90375	130 k	2%	4822 111 90511
560 pF	5%	4822 122 31773	100 E	2%	5322 111 90091	150 k	2%	5322 111 90099
680 pF	5%	4822 122 31775	110 E	2%	4822 111 90335	160 k	2%	5322 111 90264
820 pF	5%	4822 122 31974	120 E	2%	4822 111 90339	180 k	2%	4822 111 90565
1 nF	10%	5322 122 31647	130 E	2%	4822 111 90164	200 k	2%	4822 111 90351
1,2 nF	5%	4822 122 31807	150 E	2%	5322 111 90098	220 k	2%	4822 111 90197
1,5 nF	10%	4822 122 31781	160 E	2%	4822 111 90345	240 k	2%	4822 111 90215
1,8 nF	10%	4822 122 32153	180 E	2%	5322 111 90242 4822 111 90348	270 k	2% 2%	4822 111 90302 5322 111 90266
2,2 nF 2,7 nF	10% 10%	4822 122 31644 4822 122 31783	200 E 220 E	2% 2%	4822 111 90348	300 k 330 k	2%	4822 111 90513
3,3 nF	10%	4822 122 31763	240 E	2%	4822 111 90373	360 k	2%	4822 111 90515
3,9 nF	10%	4822 122 32566	270 E	2%	4822 111 90154	390 k	2%	4822 111 90182
4,7 nF	10%	4822 122 31784	300 E	2%	4822 111 90156	430 k	2%	4822 111 90168
5,6 nF	10%	4822 122 31916	330 E	2%	5322 111 90106	470 k	2%	4822 111 90161
6,8 nF	10%	4822 122 31976	360 E	1%	4822 111 90288	510 k	2%	4822 111 90364
10 nF	10%	4822 122 31728	360 E	2%	4822 111 90358	560 k	2%	4822 111 90169
12 nF	10%	5322 122 31648	390 E	2%	5322 111 90138	620 k	2%	4822 111 90213
15 nF	10%	4822 122 31782	430 E 470 E	2%	4822 111 90362	680 k 750 k	2% 2%	4822 111 90368 4822 111 90369
18 nF 22 nF	10% 10%	4822 122 31759 4822 122 31797	510 E	2% 2%	5322 111 90109 4822 111 90245	820 k	2%	4822 111 90309
27 nF	10%	4822 122 32541	560 E	2%	5322 111 90113	910 k	2%	4822 111 90374
33 nF	10%	4822 122 31981	620 E	2%	4822 111 90366	1 M	2%	4822 111 90252
47 nF	10%	4822 122 32542	680 E	2%	4822 111 90162	1,1 M	5%	4822 111 90408
56 nF	10%	4822 122 32183	750 E	2%	5322 111 90306	1,2 M	5%	4822 111 90409
100 nF	10%	4822 122 31947	820 E	2%	4822 111 90171	1,3 M	5%	4822 111 90411
80 nF	10%	4822 122 32915	910 E	2%	4822 111 90372	1,5 M	5%	4822 111 90412
20 nF	20%	4822 122 32715	1 k	2%	5322 111 90092	1,6 M	5%	4822 111 90413
77.	hina A 1	25 W S1206 NP0	1,1 k	2%	4822 111 90336	1,8 M	5%	4822 111 90414
	niips u, i	25 W 51200 NPU	1,2 k 1,3 k	2% 2%	5322 111 90096 4822 111 90244	2 M 2,2 M	5% 5%	4822 111 90415 4822 111 90185
0 E	iumper	4822 111 90163	1,5 k	2%	4822 111 90151	2,4 M	5%	4822 111 90416
1 E	5%	4822 111 90184	1,6 k	2%	5322 111 90265	2,7 M	5%	4822 111 90417
1,1 E	5%	4822 111 90377	1,8 k	2%	5322 111 90101	3 M	5%	4822 111 90418
1,2 E	5%	4822 111 90378	2 k	2%	4822 111 90165	3,3 M	5%	4822 111 90191
1,3 E	5%	4822 111 90379	2,2 k	2%	4822 111 90248	3,6 M	5%	4822 111 90419
,5 E	5%	4822 111 90381	2,4 k	2%	4822 111 90289	3,9 M	5%	4822 111 90421
1,6 E	5%	4822 111 90382	2,7 k	2%	4822 111 90569	4,3 M	5%	4822 111 90422
1,8 E	5%	4822 111 90383	3 k	2%	4822 111 90198	4,7 M	5%	4822 111 90423
2 E	5% 5%	4822 111 90384	3,3 k	2%	4822 111 90157	5,1 M	5% 5%	4822 111 90424
2,2 E 2,4 E	5% 5%	5322 111 90104 4822 111 90385	3,6 k	2%	5322 111 90107	5,6 M	5%	4822 111 90425
2,4 E 2,7 E	5% 5%	4822 111 90386	3,9 k	2% 2%	4822 111 90571 4822 111 90167	6,2 M 6,8 M	5% 5%	4822 111 90426 4822 111 90235
3 E	5% 5%	4822 111 90387	4,3 k 4,7 k	2% 2%	5322 111 90107	7,5 M	5% 5%	4822 111 90235
	5%	4822 111 90388	4,7 k 5,1 k	2% 2%	5322 111 90268	8,2 M	5%	4822 111 90237
3,3 E		-	-, · ·	_ , -		9,1 M	5%	4822 111 90428

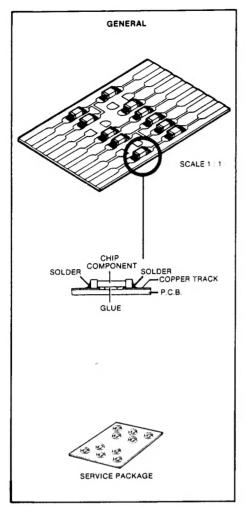
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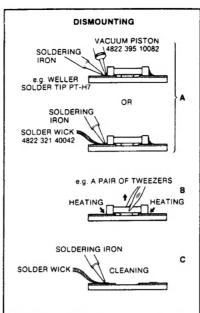
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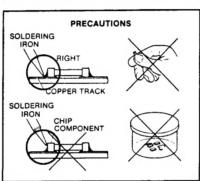
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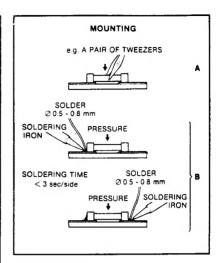
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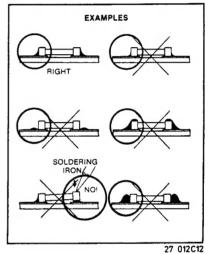
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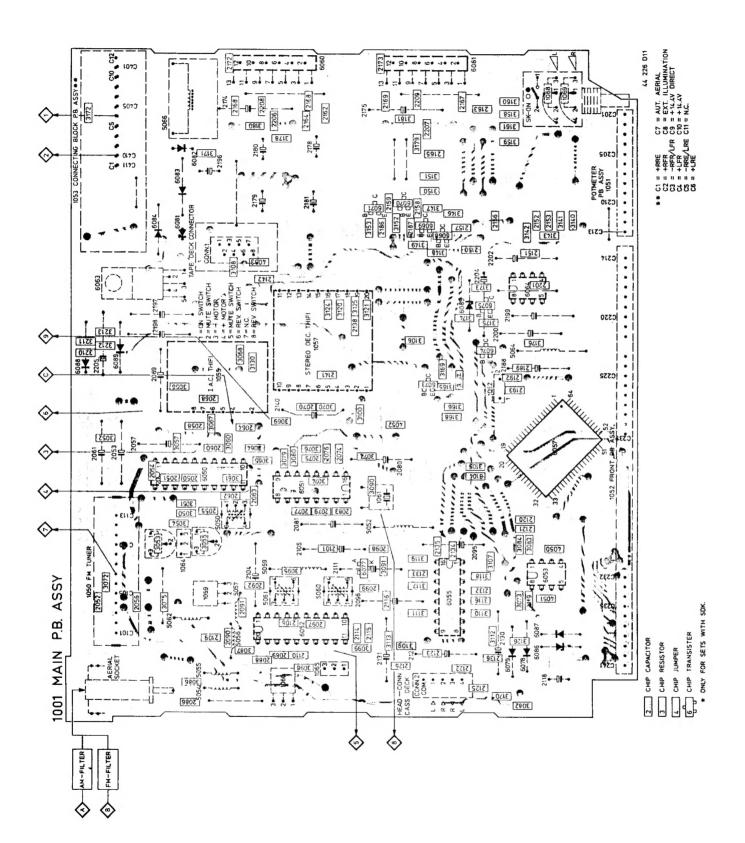


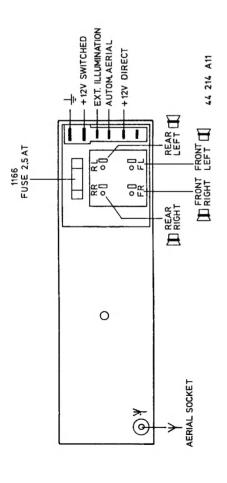
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							*a = 2,5 V
	Carbon film 0.2 W	70°C	5%	<u> </u>	Ceramic plate Tuning ≤ 120 pF NP.0 Others	2% 20/+80%	b = 4 V c = 6,3 V d = 10 V e = 16 V
-[0]	Carbon film 0.33 W	70°C	5%	***	Polyester flat foil	10%	f = 25 V g = 40 V h = 63 V
	Metal film 0.33 W	70°C	5%	"* II—	Metalized polyester flat film	10%	j = 100 V l = 125 V m = 150 V n = 160 V
	Carbon film 0.5 W	70°C	5%	•• *	Polyester flat foil small size (Mylar)	10%	q = 200 V r = 250 V s = 300 V
	Carbon film 0.67 W	70° C	5%	<u>^^</u> *	Polysterene film/foil	1%	t = 350 V u = 400 V v = 500 V
-	Carbon film 1.15 W	70°C	5%	<u>-^*</u>	Tubular ceramic		w = 630 V x = 1000 V A = 1,6 V B = 6 V C = 12 V
				<u>°*</u> 0 ⊩ —	Miniature single		D = 15 V E = 20 V F = 35 V
© Chip con	nponent			<u>°°*</u> []	Subminiature tantalum	± 20%	G = 50 V H = 75 V I = 80 V

-					
3117	1M	4822 111 91509	5050		4822 152 20684
3118	56k	4822 111 91535	5052		4822 157 50975
3119	56k	4822 111 91535	5054		4822 152 20677
3120	56k	4822 111 91535	5055		4822 152 20677
3121	56k	4822 111 91535	5056		4822 152 20677
3124	2M2	4822 111 91511	5057		4822 152 20679
3125	2M2	4822 111 91511	5059		4822 157 50975
3126	39k	4822 111 91528	5060		4822 152 20682
3130	390k	4822 111 91502	5061		4822 152 20683
3140	2K7	4822 111 91525	5062		4822 152 20678
3141	2k7	4822 111 91525	5064		4822 157 50975
3142	10k	4822 111 91517	5066		4822 152 20681
3143	10k	4822 111 91517			
3146	15k	4822 111 91498	→		
3147	15k	4822 111 91498	P1		
3148	100k	4822 111 91518	DAY44		4000 100 04100
3149	100k	4822 111 91518	BAX14		4822 130 34193 4822 130 34121
3150	3k3	4822 111 91526	BAX18		
3151	3k3	4822 111 91526	BBY40		5322 130 80119 4822 130 34233
3152	100k	4822 111 91518	BZX79/B5V1		4822 130 34233
3153	100k	4822 111 91518	BZX79/B5V6		
3158	5k6	4822 111 91534	BZX79/C4V7		4822 130 34174
3159	5k6	4822 111 91534	1N4002		5322 130 30684
3160	5k6	4822 111 91534	1N4148		4822 130 30621
3161	5k6	4822 111 91534	α		
3165	100k	4822 111 91518	\mathbb{Q}		
3166	100k	4822 111 91518			
3167	100k	4822 111 91518	BC847B Chip Tran	eietor	4822 130 60511
3168	100k	4822 111 91518	BCC47B Chip Tran	33301	4022 100 00011
3169	100k	4822 111 91518	000000		
3170	75E	4822 111 91506	Essecood		
3171	270E	4822 111 91499			
3172	270E 270E	4822 111 91499	6050	TEA6100	4822 209 72251
3173	100k	4822 111 91518	6051	TSA6057	4822 209 72248
3174	100k	4822 111 91518	6052	TEA6200	4822 209 72247
		4822 111 91517	6053	M8571B6	4822 209 11506
3175	10k 10k	4822 111 91517	6055	TA7705P	4822 209 82116
3176	680E	4822 111 91517	6057	TMP47C421AF	4822 209 72254
3177 3178	4E7	4822 111 91304	6060	TDA1518Q	4822 209 72249
3180	4E7 4E7	4822 116 80464	6063	L4918	4822 209 72253
			6064	L4904	4822 209 72252
3204	22k	4822 111 91523	- 4 7		
4050	0E	4822 111 91536			
4051	0E	4822 111 91536			

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TECHNICAL DATA

General

: 14.4V DC : 180x51x150 mm Dimensions(wxhxd) Power supply

Radio

Γ.	: 144-288 kHz
WM	: 522-1611 kH;
MH	: 87.5-108 MH:
IF-AM	: 10.7 MHz
IF-FM	: 10.7 MHz
Sensitivity 26 dB S/R	: 160 µV (LW)
	: 110 µV (MW)
	: 4 µV (FM)
Limitation α-3dB	. 15 μν
10 dB crosstalk	: 150 µV
Cassette player	
Number of tracks	: 2x2
Tape speed	: 4.76 cm/sec
Wow & Flutter	. ≥ 0.35 %
Crosstalk	. ≤ 30 dB

SERVICING HINTS

SERVICE TEST PROGRAMME

The µC test programme can be called without first entering the security code.

uC test

This test is called by turning the set on while keeping the P1 and P2 keys depressed.
Besides the RAM, a great number of µC instructions are tested. If no faults occur, a special pattern will be The test can be stopped by turning the set off. displayed. (See fig. 1f)

Display test

displayed in succession. (See figs. 1a to 1h)
If you want to make one of the patterns visible for a
longer time, you only have to keep the P1 key pressed
for the required time. The display test is called by turning the set on while keeping the P1 and P3 keys depressed. A number of easily recognizable patterns are then

SECURITY CODE

hear an error bleep and after 1 minute you will be given a new opportunity to enter the right code. Each time a wrong code is entered, the waiting time is doubled, so 1, electronic lock. The security code has been entered in the factory and cannot be changed by the customer. The security code consists of four figures varying between 7000° and '9999°. The figures are selected by pressing the UP and DOWN keys and are entered by pressing the P1 key. If you enter a wrong code, you will To reduce the risk of theft, this car radio has a built-in 2, 4, 8 etc. with a maximum of 32 minutes.

Note: If the set is presented for repair with the security codes switched on, and the customer has not stated the right code, the set will not be able to function.

Replacing the eeprom by a "non-coded" eeprom and/or replacing the microprocessor will not help in that case.

Tel:- 01844-351694 Fax:- 01844-352554 MAURITRON TECHNICAL SERVICES 8 Cherry Tree Rd, Chinnor For Service Manuals Contact Email: enquiries@mauritron.co.uk Oxon OX9 4QY

: 4x5.2W ± 1 dB/4Ω : 7 dB at 100 Hz 6 dB at 10 kHz : -9 dB at 100 Hz : -14dB at 10 kHz

Output power (D ≤ 10%)

Loudness Amplifier

Tone control

ACTIVATING THE SECURITY CODE

Proceed as follows:

Switch the set on while pressing the UP key.

Now you hear a two-tone beep and the protection is activated.

The car radio will signal that the code has been activated by briefly showing in the display the character '-C-' at the moment of switching on the radio.

ENTRY OF THE CODE

Example: Suppose the code is 4567.

Display Note shows	, ب	first figure	45 second figure 45-	456 third figure 456-	4567 fourth figure confirmation tone
Action	- Switch on -	- Select UP/DOWN "4" 4	/DOWN "5"	.9. NMOQ/c	-/L NMOD/e

Now that the security code is active, the code should be The radio is now on and you can operate the cassette entered again each time the supply voltage has been

To indicate that the security code is activated, the display briefly shows the character "C" each time the set is turned on.

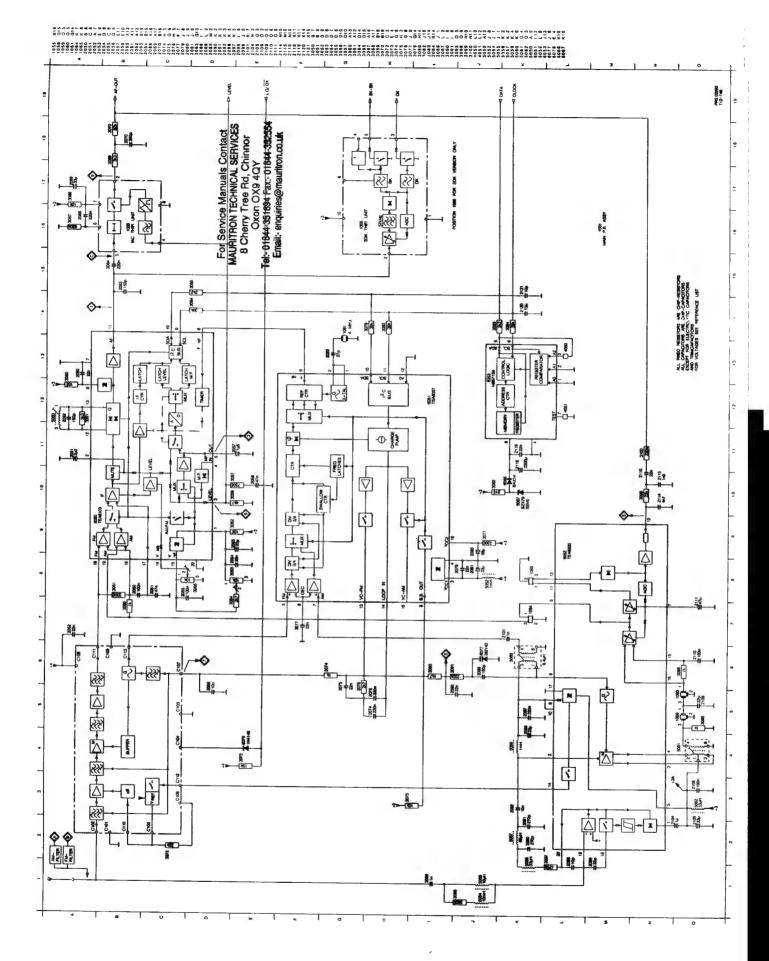
SWITCHING THE CODE OFF

Switch the set on while pressing the UP key. The display blows the indication "-C." Enfer the right code in the way described above. Two two-tone squeaks confirm that the security code is switched off.



All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD).

Careless handling during repair can reduce service life drastically. When repairing, make sure that you are connected to the same potential as the mass of the set Keep components and tools also at this potential. via a wrist wrap with resistance.



							413 422	WE SATE OF			505 20 D	416	408 A 417 A 417 A 426	NOOTE SEA		101 July 101		The second secon		NOSA BE 700FFF BE 200 (100 to 100 to	(DC570, 574) 409 4822 462 71496 421 4822 413 31508 (DC670, 674) 411 4822 130 90499 422 4822 443 30463 412 4822 410 26314 (DC570, 574) 423 4822 43 30463 412 4822 410 26315 (DC670, 674) 424 4822 321 21135 (DC570) 413 4822 410 26316 (DC570, 670) 427 4822 267 40763 (DC574) 416 4822 410 26339 (DC574, 674) 428 4822 267 40763 (DC677) 416 4822 214 51694 (DC574, 674) 429 4822 297 10305 (DC6774) 417 4822 214 51694	419 4822 276 12296 **Incl.
			431 MATERIALS				402	403		908			408				604		1.4 3.8		402 4822 443 62358 402 4822 443 62271 403 4822 492 42291 404 4822 403 53282 406 4822 423 50891 406 4822 423 50892 406 4822 423 50892 406 4822 423 50892 406 4822 423 50898	
	□::																			\$ 25-50 µs		
	đ.	(√0dB (775 mV)	-30dB<(\$)<40dB	♦ 0dB (775 mV)	♦ 26dB	(Vm 277) Bb0 (①	(∮) > 26dB	⟨♣⟩ 200 mV ±1dB	⟨	♦ 20 mV ± 1 dB	⟨5⟩ 350 mV ± 1dB	L (1) 0dB (775 mV)	R ② - L ﴿ > 21dB	L (1) 0dB (775 mV)	R② - L (D= 10dB		◆ 1.75 v-DC	♦ > 1.0 v-DC ♦ 6.0 v-DC	(8) > 0.8 V-DC (8) ≤ 6.0 V-DC			
	Setting of controls	7	Y.	7		7						7	ac.	7	ar.							
]	[]	[]	[]			[]	[87.5 MHz 108 MHz	144 kHz 1611 kHz			
	\Diamond	(•	@	>	(>	«	>	®	❖	(>	(a)	>	®	◈			©		
or checking and adjusting see general procedures	&	93 MHz, 1 mV	no signal	93 MHz, 4 μ V \triangle f = 22.5 kHz f mod = 1 kHz	93MHz, 4μV without mod.	990 kHz, 110 µV 1 kHz, 30% AM	990kHz, 110 µV without mod.	93MHz, 1mV △f = 22.5 kHz f mod = 1 kHz	93 MHz, 1 mV ∆f = 6.75 kHz f mod. = 1 kHz	93 MHz, 1 mV ∆f = 3.75 kHz f mod. = 57 kHz	990 kHz, 1 mV 1kHz, 30% AM	93 MHz, 1 mV stereo signal	93 MHz, 1 mV stereo-R	93 MHz, 1 mV stereo signal	93 MHz, 150 μV stereo-R	93 MHz, 25μV	990 KHz, 70µV			T = 10 µsec T = 300 µsec Vp = 60 mV		
adjusting	SK	N	Ž L	Σ		3		Ĭ.		M	MW	Ā	I	Σ	1	N.	M.	£	MW MW	Σ		
or checking and	Check	CM Moto	annw-wil	26dB-SNR		-		Demodulated FM-levels		Demodulated FM level	Demodulated AM-level	Cross talk		SDS/10dB Cross talk		Search level FM	Search level AM	VC-FM	VC-AM	LA.C.		12 225

any position position FM position AM position play forward position play reverse position eject	C107= VC-FM MP-7 C108= 1.4V C109= GND. C110= 1.7V C111= 2.9V C112= 0.2V C113= 1.8V	5 = 4.3V 6 = 8.1V 7 = 8.4V 8 = GND.
Y FM Y AM Y A Y A	50 FM TUNER 01 = GND. 02 = - 03 = GND. 04 = 0.0V 05 = 1.7V 06 = 8.5V	55 IAC-THIFI = N.C = 2.5V MP-9 = N.C = 4.3V signal

11 = 6.8V AM 12 = 1.3V MP-5 13 = 4.8V AM 14 = 8.5V AM 15 = 4.8V AM 17 = GND. 19 = 1.0V AM 20 = 3.3V AM

1 = 6.8V AM 2 = 4.0V AM 3 = 8.5V 5 = 8.5V 6 = 8.5V 6 = 8.5V 7 = 0.7V 8 = 4.0V AM 10 = 4.0V AM

5052 TEA6200

5 = 4.8V(SDA) 6 = 4.8V(SCL) 7 = GND. 8 = 5.0V

1 = GND. 2 = GND. 3 = GND. 4 = GND.

6053 M8571B6

9 = 2.9V 10= N.C 11= 2.9V

1 = 8.5V 2 = 3.3V; 0.0V eject 1 3 = 0.0V >, eject 1 5.0V <

6055 TA7705P

12= 2.9V 13= 2.9V 14= N.C 15= N.C

4 = N.C 5 = 2.9V 6 = 2.9V 7 = 2.9V 8 = GND.

7 = 8.4V 8 = GND.	11= 5.0V mono 0.0V sterec 12= N.C 13= 5.0V muted
= N.C = 4.3V signal 0.0V no signal	57 ST.DEC.THIFI = 5.0V mono 0.2V stereo = N.C = 3.5V

mono	stereo	muted
11= 5.0V	0.0V stereo	13= 5.0V
	stereo	

0.0V stereo	N.C	5.0V muted	0.0V signal	= 0.0V muted	5.0V signal
tereo	12=	13=		14=	

= 2.5V

6060/6061 TDA1518Q

muted				
	5.0			
14=		15=	16≖	

15= 3.5V	16= 3.5V	17 = 3.5V	18= 3.5V	19- 357

8 = 14.4V 9 = 6.6V 10 = 14.4V 11 = 14.4V 12 = 6.6V 13 = 2.2V

1 = 2.2V 2 = 2.2V 3 = GND. 4 = 2.2V 5 = 6.6V 7 = GND.

19 = 3.5V20 = 3.5V

= 3.5V = GND. = N.C = 7.3V = N.C = N.C = 4.3V signal 0.0V no signal

6063 L4918

1 = 14.4V 2 = 2.6V 3 = GND. 5 = 8.5V

	11= 4.2V MP-4	12 = 4.6V	13= 4.6V
TEA6100	3.4V	78.0	4.3V signal

0.8		-
75.1		-
2	arginal argunal	2
0.0	no signal	

13=		14=
signal	no signal	
€	∂.	ပ

14=	15=	16=	17=	18=	19=	20=	
N.C	= MP-3	= 40 kHz	= GND.	= 8.4V	= 4.8V(SDA)	= 4.8V(SCL)	

5 = N.C 6 = 4.2V 7 = 5.0V 8 = 5.0V

1 = 12.7V 2 = 8.5V 3 = 5.6V 4 = GND.

6064 L4904

VC.2 = 1	18 = 2.9V	19 = 2.9V	20= GND.
		DA)	3

20= GND.		9 = 40 KH
= 4.8V(SCL)	51 TSA6057	= 4 MHz

		10 12 13 13 13 13 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	11 8 18 11	440>;	10= 4.8V(SDA) 11= 4.8V(SCL) 12= GND. 13= VC-FM 1.3V-5.8V	>> - 4	ത്ത്.∑:	35 T:	رن دن ا	> 5	ဟု ဒွ	∞;
--	--	--	------------	-------	---	--------	---------	-------	---------	-----	-------	----

	(87.5MHz	2.00	15= N.C	8.3V
-		14=	15=	16=
				Σ
				>

-0 10 10 10 10 10 10 10 10 10 10 10 10 10	(87.	14 = 2.0	15= N.C	
				MΗ
>		>	>	8.

13= VC-FF (87.5h	14= 2.00	15= N.C	16 = 8.3V	
>	>	>	.8V FM	3V AM

	15= 15 15= N
.8V	78.
.8V	V8.

11= 4.8	12≖ GNI	13= VC-	(87.	14= 2.0\	
>	ä	>		>	>

 $\theta = 0.1V$ foudn. on b = 0.7V loudn. on c = 0.1V loudn. on

6909/8909

6070/6071

$$9 = 40 \text{ kH}$$

 $10 = 4.8 \text{ V}$
 $11 \approx 4.8 \text{ V}$
 $12 \approx \text{GND}$

e = GND. b = 0.0V c = 5.0V

e = GND.
b = 0.6V loudn. off
0.0V loudn. on
c = 0.0V loudn. off
0.1V loudn. on

e = GND. b = 0.7V c = 0.0V

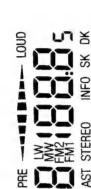
e = GND. b = 0.6V loudn. off 0.0V loudn. on c = 0.0V loudn. off 3.3V loudn. on

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For adjusting and checking see general procedures

Adjustment	XS		\Diamond	\Diamond	() :
Qudrature detector	Ā	93 MHz, 10 μV	®	2050	via 100 kΩ: 11-15 IC6050 ≤ 100 mV DC
0 7	2	93 MHz, 1 mV △f = 22.5 kHz f mod = 1 kHz	®	7	(Vm 277) abo 🚯
	Ē	93 MHz, 15 μV ∆f = 22.5 kHz f mod = 1 kHz	®	3055	-3dB
AM-search level	WW	990 kHz, 70 µV	⋄	3053	◆ 1.75 v DC



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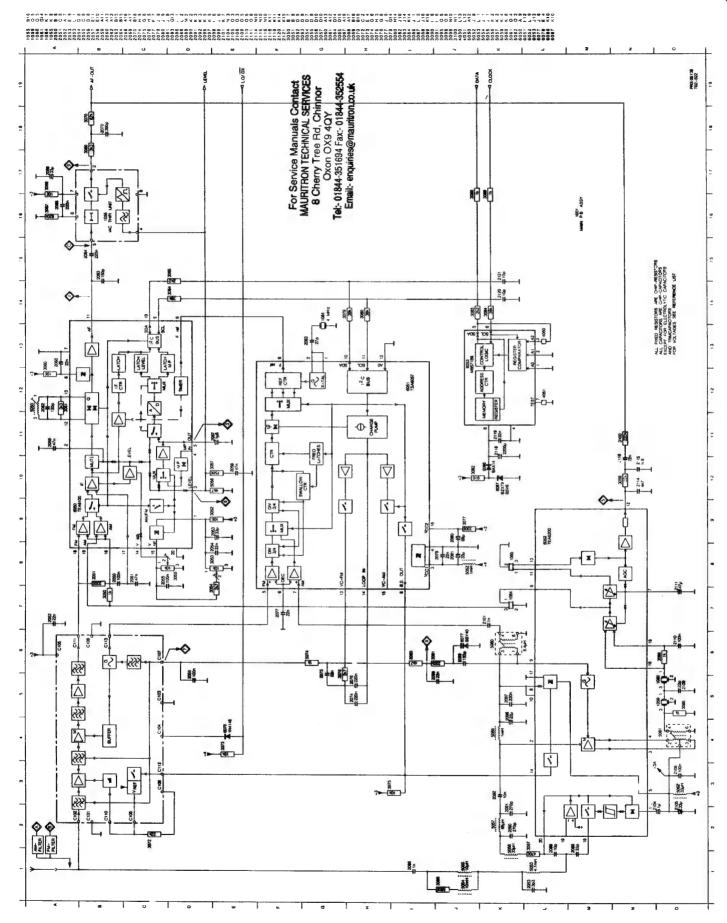


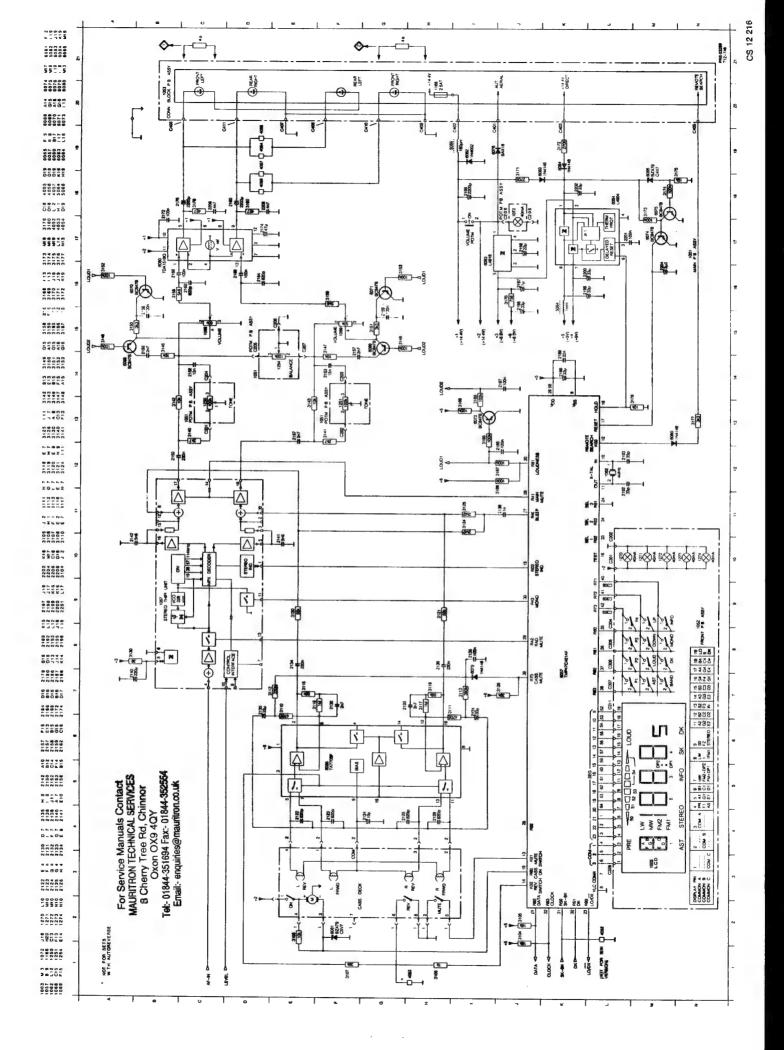


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42 947 B12

Fig. 1





any position position FM	position play forward position play reverse position eject
>: >: > M A M A	. V > V

C107= VC-FM MP-7 C108= 1.4V C109= GND. C110= 1.7V C111= 2.9V C112= 0.2V C113= 1.8V 1050 FM TUNER C101= GND.

① OdB (775 mV)

V

0

93 MHz, 1 mV ∆f = 22.5 kHz f mod = 1 kHz

Σ

a-3dB

③ 1.75 ∨ DC

3053

③

990 KHz, 70 µV

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AM-search level

5 = 4.8V(SDA) 6 = 4.8V(SCL) 7 = GND. 8 = 5.0V

1 = GND. 2 = GND. 3 = GND. 4 = GND.

6053 M8571B6

9 = 2.9V 10 = N.C 11 = 2.9V

6055 TA7705P

12= 2.9V 13= 2.9V 14= N.C 15= N.C

6060 TDA1518Q

1 = 8.5V 2 = 3.3V; 0.0V eject 3 = 0.0V >, eject 4 = N.C 5 = 2.9V 7 = 2.9V 8 = GND.

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LOUD

8 = 14.4V 9 = 6.6V 10= 14.4V 11= 14.4V 12= 6.6V 13= 2.2V

1 = 2.2V 2 = 2.2V 3 = GND. 4 = 2.2V 5 = 6.6V 6 = 14.4V 7 = GND.

X

INFO SK

STEREO FMI

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INFO SK DK

AST STEREO FMI 3€

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-3dB

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3055

®

93 MHz, 15 µV ∆f = 22.5 kHz f mod = 1 kHz

via 100 kΩ: 11-15 IC6050 ≤ 100 mV DC

5050

®

93 MHz, 10 µV

Qudrature detector

11 = 6.8V AM 12 = 1.3V MP-5 13 = 4.8V AM 15 = 4.8V AM 15 = 4.8V AM 17 = GND 19 = 1.0V AM 19 = 1.3V AM 19 = 1.3V AM

1 = 6.8V AM 2 = 4.0V AM 3 = 8.5V 4 = 8.5V 5 = 8.5V 6 = 8.5V 7 = 0.7V 8 = 4.0V AM 10= 4.0V AM

3052 TEA6200

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Adjustment

For adjusting and checking see general procedures

Ø.

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C102= -C103= GND. C104= 0.0V C105= 1.7V C106= 8.5V

1055 IAC-THIFI

1 = N.C 2 = 2.5V MP-9 3 = N.C 4 = 4.3V signal 0.0V no signal

5 = 4.3V 6 = 8.1V 7 = 8.4V 8 = GND.

057 ST.DEC.THIFI

1 = 5.0V mono 0.2V stereo 2 = N.C 3 = 3.5V

4 = 2.5V

5 = 3.5V 6 = GND. 7 = N.C 8 = 7.3V 9 = N.C

11= 5.0V mono 0.0V stereo 12= N.C 13= 5.0V muted 0.0V signal 14= 0.0V muted 5.0V signal 16= 3.5V 17= 3.5V 17= 3.5V 19= 3.5V 19= 3.5V 20= 3.5V

0= 4.3V signal 0.0V no signal

050 TEA6100

6063 L4918

1 = 14.4V 2 = 2.6V 3 = GND. 4 = GND. 5 = 8.5V

6064 L4904

11= 4.2V MP-4 12= 4.6V 13= 4.6V

1 = 8.4V 2 = 0.8V 3 = 4.3V signal 0.0V no signal 0.0V no signal 4 = N.C 5 = M.P.3 6 = 40 KHz 7 = GND. 8 = 8.4 V 9 = 4.8V(SDA) 9 = 4.8V(SDA)

14= 2.5V 15= 4.4V 16= 2.9V 17= 2.9V 18= 2.9V 20= GND.

5 = N.C 6 = 4.2V 7 = 5.0V 8 = 5.0V

1 = 12.7V 2 = 8.5V 3 = 5.6V 4 = GND.

351 TSA6057

e = 0.1V loudn. on b = 0.7V loudn. on c = 0.1V loudn. on

6909/8909

6070/6071

9 = 40 kHz ± 0.6Hz 10 = 4.8V(SDA) 11 = 4.8V(SCL) 12 = 6ND. 13 = VC-FM 1.3V-5.8V (87.5MHz-108MHz) 14 = 2.0V 15 = N.C.

6 = GND. b = 0.0V c = 5.0V

e = GND. b = 0.6V loudn. off 0.0V loudn. on c = 0.0V loudn. off 0.1V loudn. on

e = GND. b = 0.7V c = 0.0V 6075

e = GND.
b = 0.6V loudn. off
0.0V loudn. on
c = 0.0V loudn. off
3.3V loudn. on

= <0.8V FM 8.3V AM

= 4 MHz = 4 MHz = 4.7V = 6ND. = 1.8V = 1.8V

Fig.

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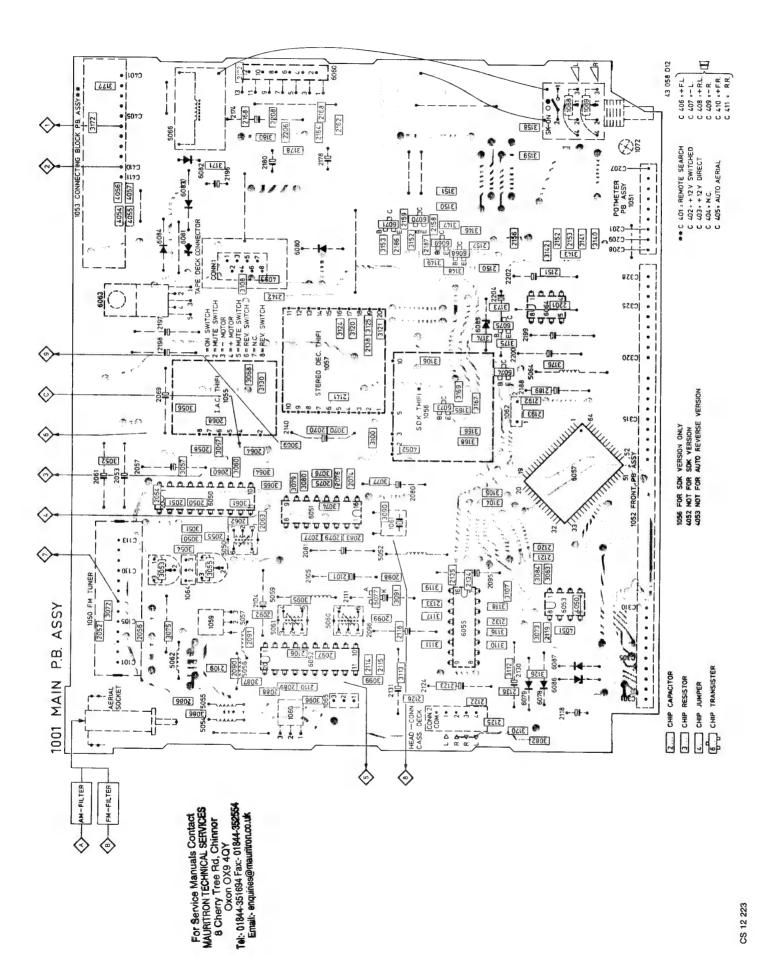
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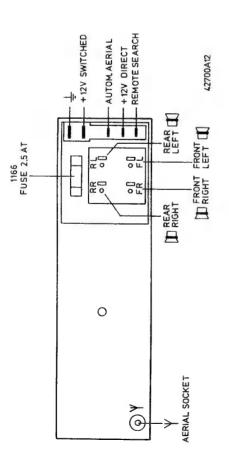
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TECHNICAL DATA

: 2×2 : 4.76 cm/sec : ≽ 0.35 % : ≤ 30 dB	: 2x5.2W ± 1 dB/4Ω : 7 dB at 100 Hz 6 dB at 10 kHz :-9 dB at 100 Hz :-14dB at 10 kHz
Cassette player Number of tracks Tape speed Wow & Flutter Crosstalk	Amplifier Output power (D ≤ 10%) Loudness Tone control
: 14.4V DC : 180x51x150 mm : 22EN9875	: 144-288 kHz : 522-1611 kHz : 87.5-108 MHz : 10.7 MHz : 10.7 MHz : 160 µV (LW) : 110 µV (KW) : 4 µV (FM) : 15 µV
General Power supply Dimensions(wxhxd) Remote control unit	Radio LW MW FM IF-AM IF-FM Sensitivity 26 dB S/R Limitation α-3dB 10 dB crosstalk

SERVICING HINTS

SERVICE TEST PROGRAMME

The µC test programme can be called without first entering the security code.

uC test

This test is called by turning the set on while keeping the Besides the RAM, a great number of μC instructions are tested. If no faults occur, a special pattern will be displayed. (See fig. 1f)
The test can be stopped by turning the set off. P1 and P2 keys depressed.

Display test

longer time, you only have to keep the P1 key pressed for the required time. If you want to make one of the patterns visible for a The display test is called by turning the set on while A number of easily recognizable patterns are then displayed in succession. (See figs. 1a to 1h) keeping the P1 and P3 keys depressed.

SECURITY CODE

General

electronic lock. The security code has been entered in the factory and cannot be changed by the customer. The security code consists of four figures varying between "0000" and "9999". The figures are selected by pressing the UP and DOWN keys and are entered by pressing the P1 key. If you enter a wrong code, you will hear an error bleep and after 1 minute you will be given wrong code is entered, the waiting time is doubled, so 1, To reduce the risk of theft, this car radio has a built-in a new opportunity to enter the right code. Each time a 2, 4, 8 etc. with a maximum of 32 minutes.

code switched on, and the customer has not stated the right code, the set will not be able to function. Replacing the eeprom by a "non-coded" eeprom and/or replacing the microprocessor will not help in that case. Note: If the set is presented for repair with the security

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Working

ACTIVATING THE SECURITY CODE

Proceed as follows:

Switch the set on while pressing the UP key.

Now you hear a two-tone beep and the protection is activated.

The car radio will signal that the code has been activated by briefly showing in the display the character '-C.' at the moment of switching on the radio.

ENTRY OF THE CODE

Example: Suppose the code is 4567.

Action - Switch on - Press P1 - Select UP/DOWN "4" - Press P1 - Select UP/DOWN "5" - Press P1 - Select UP/DOWN "6"	Display shows shows shows C- 44 44 45- 45- 456- 456-	Note first figure second figure third figure
- Select UP/DOWN "7" - Press P1	4567	fourth figure confirmation tone

Now that the security code is active, the code should be The radio is now on and you can operate the cassette entered again each time the supply voltage has been To indicate that the security code is activated, the display briefly shows the character "C" each time the set is

SWITCHING THE CODE OFF

Switch the set on while pressing the UP key. The display shows the indication "-C-". Enter the right code in the way described above. Two two-tone squeaks confirm that the security code is switched off.

ESD A

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD).

drastically. When repairing, make sure that you are connected to the same potential as the mass of the set Careless handling during repair can reduce service life via a wrist wrap with resistance.

Keep components and tools also at this potential.

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		For Service Manuals Contact Malipropy TECHNICAL SERVICE	8 Chery Tree Rd, Chinnor Oxo 40Y Tree Bd, Chinnor Oxo 40Y Tel: 01844.35184 Fx: 01844.353554	Email: enquiries@mauritron.co.uk			401	402	406			114	423	412 — — — — — — — — — — — — — — — — — — —			955	- 1 s	ē o	401 4822 443 62676 (570)
									,											\$\$-50 µs
(1:)	(√NM 2775 MV)	-30dB≪(I)<40dB	(Vm 277) Bb0	♦ 26dB	(y) 0dB (775 mV)	♦ 26dB	♦ 200 mV ±1dB	⟨♣⟩ 50 mV ± 1dB	⟨♣⟩ 20 mV ± 1 dB	\$ 350 mV ± 1dB	L () 0dB (775 mV)	R② - L (V) ≥ 21dB	L 🛟 0dB (775 mV)	R② - L ①= 10dB	 	◆ 1.75 v-DC	♦ 1.0 V-DC ♦ 6.0 V-DC	(B) ≥ 0.8 V-DC		
Setting of controls	1		V		7		P GLO				Ţ		Ţ							
			[]	[]	[]					[87.5 MHz 108 MHz	144 KHz	1611 kHz	
\Diamond	<	⊕	(>	(4	>	(>	®	❖	(4	>	(<u> </u>	®	◈				
₩	93 MHz, 1 mV	no signal	93 MHz, 4 μV Δf = 22.5 kHz f mod = 1 kHz	93MHz, 4μV without mod.	990 kHz, 110 μV 1 kHz, 30% AM	990kHz, 110 µV without mod.	93MHz. 1mV △f = 22.5 kHz f mod = 1 kHz	93 MHz, 1 mV ∆f = 6.75 KHz f mod. = 1 KHz	93 MHz, 1 mV	990 kHz, 1 mV 1kHz, 30% AM	93 MHz, 1 mV stereo signal	93 MHz, 1 mV stereo-R	93 MHz, 1 mV stereo signal	93 MHz, 150 µV stereo-R	93 MHz, 25μV	990 кНz, 70µV				t = 10 usec T = 300 usec Vp = 60 mV
SK		Σ	2	Ē	NA.		Ā		Æ	WM	Ā		Æ		Æ	MM	ž.	3	WW	Σ
Check		FM-Mute	26dB-SNR				Demodulated FM-levels		Demodulated FM level	Demodulated AM-level	Cross talk		SDS/10dB Cross talk		earch level FM	earch level AM	VC-FM	VC-AM		I.A.C.

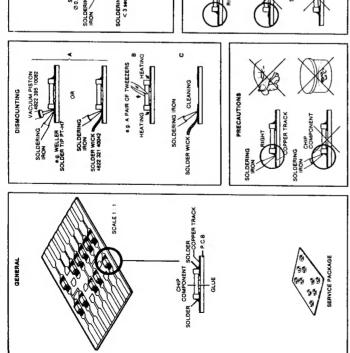
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Email: enquiries@mauritron.co.uk 401 402 406 90 90 411 423 412 417	401 4822 443 62676 (570) 401 4822 443 62271 402 4822 492 42271 406 4822 435 50934 (570/60E) 406 4822 435 50939 (670/60) 406 4822 435 50939 (670/60E) 411 4822 435 30939 (470/60E) 412 4822 413 41481 413 4822 413 41481 413 4822 413 41481
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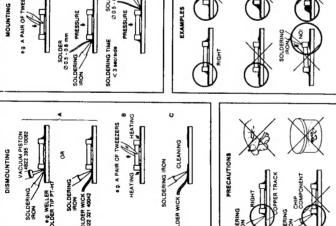
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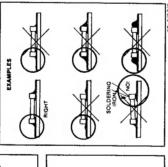
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3124	2M2	=	5057		152
3125	2M2	=======================================	5059		157
3126	39k	Ξ	5060		4822 152 20682
3130	390k	111 91	5061		152
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3151	3k3	Ξ	D2779/051/4		
3152	100k	4822 111 91518	B2X79/B5V6		3 6
3153	100k	4822 111 91518	0400/6/20		2
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3159	5k6	Ξ	104002		5322 130 30684
3160	5k6	11	1N4148		4822 130 30621
3161	5k6	4822 111 91534	Č		
3165	100k	111	Ø		
3166	100k	4822 111 91518			
3167	100k	Ξ	BC847B Chip Transistor	<u>,</u>	4822 130 B0511
3168	100k	Ξ			1000 001 100
3169	100k	4822 111 91518	Total Control		
3170	75E	Ξ	· ·		
3171	270E	=======================================			
3172	270E	Ξ		TEA6100N2	4822 209 72251
3173	100k	Ξ	•	TEA 6000	4822 209 /2248
31/4	X00L	Ξ	2000	V 24021	4927 203 72847
3175	Š	Ξ		727021 TA7784P	200
31/6	ž	Ξ		TA 40470 407	
31//	1080	4822 111 91504		TDA15180	200
3179	4E7	2 4		L4918	203
000	įį			F4904	4822 209 72252
3180	# 750	4822 116 80464	;		
4050	K II	4822 111 91523			
4051	8	Ξ			
4052	9	4822 111 91536			
100	,				

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						*a = 2,5 V	
			•	Ceramic plate		b = 4 V	
[Carbon film		\\ \\	PANA	%6	c = 6,3 V	
	0.2 W 70°C	2%		Others	2047 BOS	d ≈ 10 V	
					150/ ±00/0	e = 16 V	
4	Ē		*	Polvester flat foil	10%	f = 25 V	
	0.33 W 70°C	2%				9 = 40 \	
						h = 63 V	
	Metal film		*		-	- 100 V	
I.	700Z	70		Metalized polyester	10%	1 = 125 V	
			•	flat film		m = 150 V	
			1			n = 160 V	
ا •	Carbon film		00	Polyester flat foil	10%	q = 200 V	
	0.5 W 70°C	2%	_	small size (Mylar)		r = 250 V	
						s = 300 v	
	Carbon film		***	Dolvetoropo film/foil	40%	1 = 350 V	
<u></u>	O 67 W 70°C	2%		rolysterette mitty on	P.	u = 400 V	
						> 000 = >	
	19 19 19		*:	Tubulas commis		w = 630 V	
1	E			upulai ceramic		× = 1000 V	
	1.15 W dr.r	2%				V 9'1 = V	
						>9 = 8	
						C = 12 V	
			*0	o contract of the contract of		D = 15 V	
			Ţ	MIIIIature single		E = 20 V	
						F * 35 V	
			***	Subminiature	+ 20%	0 = 50 v	
(C) Chip component	nponent			tantalim		H * 75 V	
)						A.08 = 1	

27 037 A/C

1		
9	1 90544 1 90276 1 90277 1 90237 1 90237 1 90237 1 90237 1 90237 1 90234 1 90234 1 90234 1 90234 1 90216 1 90217 1 90216 1 90216 1 90217 1 90226 1 90227 1 90227	91141
5 W S1206	4822 1 1 1 1 2 2 1 1 1 1 1 2 1 1 1 1 1 1	5322 111
Chips 0,125	นั้นนี้ ถึงถึงถึงถึงถึงถึงถึงถึงถึงถึงถึงถึงถึงถ	2%
	86.08.00	10M
	903376 903376 903393 902394 903395 903395 90335 90355	0545
5 W S1206	5.322 111 4.822	4822 111 8
Chips 0,125	รัฐที่ ที่ ที่ ที่ ที่ ที่ ที่ ที่ ที่ ที่	5%
) O	######################################	6,2 k
	322479 322087 322087 322087 322087 322088 32208 32208 322088 3220	391 392
NP0 S1206	4822 122 3 4822 119 9 8822 119 9 8822 119 9 8822 119 9	듣
Chips 50 V NI	6 Chi S	4 4
⊕ 1 C		ດ ຕ